

Evaluation of the 2022 PŘF UHK Dean's Prize Competition

A total of 37 applications were submitted for the 2022 PŘF UHK Dean's Prize Competition by 31 December 2021, of which:

- 28 in category a) Scientific Publication in a Journal with IF;
- 0 in category b) Foreign Monograph Published by a Reputable Publishing House;
- 1 in category c) Patents and Applied Results;
- 8 in category d) National and International Scientific Grants.

The competition was governed by Dean's Decision No. 7/2019.

The final ranking was decided by a committee consisting of the Dean, Vice-Deans and Heads of Departments at the meeting of the Dean's Advisory Board held on 19 January 2022. The PŘF UHK Dean hereby officially announces the final ranking of applications in each category:

A) Scientific Publication in a Journal with IF:

1st place:

Publication title: **15N, 13C and 1H NMR Study of Tautomerism in 2-(phenyldiazenyl-4-substituted naphthalen-1-ols. Influence of Substitution in Passive Components on Azo-Hydrazo Tautomerism**

Awarded authors: Zdeňka Neuerová, Antonín Lyčka

2nd place:

Publication title: **Biomarkers of Deoxynivalenol (DON) and its Modified Form DON-3-glucoside (DON-3G) in Humans**

Awarded authors: Kamil Kuča, Wenda Wu, Eugenie Nepovimová, Kamil Musílek, Qinghua Wu

3rd place:

Publication title: **The Spatio-Temporal Reconstruction of Spoil Heap Landslide Movements Using Anatomical Tree Growth Responses**

Awarded authors: Karel Šilhán

4th place:

Publication title: **Hypothesis: JNK Signaling is a Therapeutic Target of Neurodegenerative Diseases**

Awarded authors: Kamil Kuča, Wenda Wu, Eugenie Nepovimová, Kamil Musílek, Qinghua Wu

5th place:

Publication title: **Signal Transducer and Activator of Transcription 3 Signaling in Tumor Immune Evasion**

Awarded authors: Kamil Kuča, Wenda Wu, Eugenie Nepovimová, Kamil Musílek, Qinghua Wu

6th place:

Publication title: **Application of Mechanical Trigger for Unobtrusive Detection of Respiratory Disorders from Body Recoil Micro-Movements**

Awarded authors: Dalibor Cimr, Filip Studnička, Richard Cimler, Jan Šlégr

7th place:

Publication title: **Aflatoxins: History, Significant Milestones, Recent Data on Their Toxicity and Ways to Mitigation**

Awarded authors František Malíř, Vladimír Ostrý, Darina Picková, Jakub Toman

8th place:

Publication title: **A Recent Overview of Producers and Important Dietary Sources of Aflatoxins**

Awarded authors František Malíř, Vladimír Ostrý, Darina Picková

9th place:

Publication title: **Raman Spectroscopy as a Novel Method for the Characterization of Polydioxanone Medical Stents Biodegradation**

Awarded authors: Jan Loskot, Daniel Jezbera, Rafael Doležal, Rudolf Andrýs, Dominik Miškář, Alena Myslivcová Fučíková

10th place:

Publication title: **The Influence of Locality on Phenolic Profile and Antioxidant Capacity of Bud Extracts**

Awarded authors: Zuzana Kovalíková, Rudolf Andrýs

B) Foreign monograph published by a renowned publishing house:

1st – 10th place: NO AWARD

C) Patents and Applied Results:

1st place:

Patent title: **Method for Detecting Organisms, in particular Vertebrates, in Enclosed and Partially Enclosed Spaces and Apparatus for Carrying out the Detection**

Awarded authors: Filip Studnička, Jan Šlégr, Petr Šeba

2nd – 10th place: NO AWARD

D) National and international scientific grants:

1st place:

Project title: **IT4Neuro(Degeneration)**

Registration number: CZ.02.1.01/0.0/0.0/18_069/0010054

Awarded researchers: Miroslav Lísa, Kamil Musílek, Ondřej Benek, Annamária Halečková, Monika Schmidt, Lucie Zemanová, Jana Svobodová, Petra Lišková

2nd place:

Project title: **AGEING PREVENTION – Simultaneous Modulation of ABAD and mTOR Signalling Pathway**

Registration number: **NV19-09-00578**

Awarded researchers: Kamil Kuča, Eugenie Nepovimová, Lucie Zemanová, Rudolf Andrýs, Žofia Chrienová

3rd place:

Project title: **Therapeutic Potential of Novel mTOR Inhibitors in the Ageing Process**

Registration number: GA20-22037S

Awarded researchers: Eugenie Nepovimová, Jana Svobodová, Lucie Zemanová, Rudolf Andrýs, Žofia Chrienová

4th place:

Project title: **Coupling Supercritical Fluid Chromatography and Mass Spectrometry as a New Tool for the Characterization of Lipids and Polar Metabolites**

Registration number: 20-12289S

Awarded researchers: Miroslav Lísa, Eva Cífková, Petra Lišková, Oleksandr Kozlov

5th place:

Project title: **Modified Nucleophiles for Reactivation of Cholinesterases Inhibited by Organophosphorus Compounds**

Registration number: 21-03000S

Awarded researchers: Dávid Maliňák, Adam Skarka, Rudolf Andrýs, Eliška Prchalová, Zuzana Kohoutová

6th place:

Project title: **Encapsulation of Cholinesterase Reactivators by Apoferritin to Increase Bioavailability in the Central Nervous System**

Registration number: GA19-13628S

Awarded researchers: Kamil Musílek, Ondřej Benek, Miroslav Psoška, Miroslav Lísa, Lucie Zemanová

7th place:

Project title: **Investigation of the Mechanism of Toxicity of Aminophenol S-conjugates**

Registration number: GA19-11867S

Awarded researchers: Kamil Musílek, Dávid Maliňák, Ondřej Benek, Miroslav Lísa, Lucie Zemanová

8th place:

Project title: STAT3 Inhibitors as a Tool for Elimination of Negative Effects of Chemotherapy

Registration number: 18-05-00562

Awarded researchers: Kamil Musílek, Dávid Maliňák, Miroslav Psoška, Adam Skarka

9th – 10th place: NO AWARD

The prize money will be paid to the successful contestants at the next payout date.

In Hradec Králové on 24 January 2022

Ass. Prof. RNDr. Jan Kříž, Ph.D.
Dean of the Faculty of Science, UHK



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